

**Detection of Polymorphisms Associated with Vascular Disease**

**ABSTRACT**

5 The present invention is based at least in part on the discovery of polymorphisms  
within the thrombospondin 2 (THBS2) gene, the angiotensin converting enzyme 1 (ACE),  
and the beta fibrinogen (FGB) gene. Accordingly, the invention provides nucleic acid  
molecules having a nucleotide sequence of an allelic variant of a THBS2, ACE, or FGB  
gene. The invention also provides methods for identifying specific alleles of polymorphic  
regions of a THBS2, ACE, or FGB gene, methods for determining whether a subject is or is  
10 not at risk of developing a disease which is associated with a specific allele of a polymorphic  
region of a THBS2, ACE, or FGB gene, *e.g.*, a vascular disease, based on detection of  
polymorphisms within the THBS2, ACE, or FGB gene, and kits for performing such  
methods. The invention further provides methods for classifying a subject who is or is not at  
risk for developing, a vascular disease or disorder as a candidate for a particular clinical  
15 course of therapy or a particular diagnostic evaluation.